



The Great Catburglar of Purr Palace

Grade 4 math · Multiplication, Rounding, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ Date: _____

The golden fish trophy has been stolen from Purr Palace! The head chef of the cat bakery is in tears because their prize is gone. A sneaky catburglar crept in during naptime and snatched it.

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

My answer: the catburglar is _____

Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	CLIMBING SKILL	SPY GEAR	FAVORITE PAW	FUR PATTERN	DISTRACTION
Garfield	fence leaping	yarn grappling hook	right pawed	tabby stripes	feather wand
Fluffy	counter jumping	catnip smoke bomb	left pawed	calico patches	crinkling foil
Whiskers	fence leaping	laser pointer	left pawed	tabby stripes	crinkling foil
Cleo	counter jumping	squeaky mouse decoy	left pawed	tabby stripes	crinkling foil
Sylvester	counter jumping	night vision goggles	left pawed	calico patches	can opener sound
Mittens	curtain scaling	laser pointer	left pawed	calico patches	feather wand
Milo	rafter walking	squeaky mouse decoy	left pawed	calico patches	crinkling foil
Daisy	fence leaping	yarn grappling hook	left pawed	calico patches	crinkling foil
Cookie	bookshelf hopping	yarn grappling hook	left pawed	tabby stripes	can opener sound
Smokey	counter jumping	night vision goggles	left pawed	calico patches	crinkling foil
Nala	counter jumping	catnip smoke bomb	right pawed	calico patches	crinkling foil
Simba	rafter walking	night vision goggles	left pawed	calico patches	crinkling foil
Oliver	rafter walking	night vision goggles	left pawed	calico patches	feather wand
Felix	bookshelf hopping	yarn grappling hook	right pawed	solid black fur	can opener sound
Shadow	curtain scaling	laser pointer	right pawed	tabby stripes	feather wand
Gizmo	rafter walking	laser pointer	left pawed	tabby stripes	feather wand
Tom	counter jumping	squeaky mouse decoy	right pawed	calico patches	crinkling foil
Socks	counter jumping	night vision goggles	right pawed	solid black fur	crinkling foil
Rusty	curtain scaling	yarn grappling hook	left pawed	solid black fur	feather wand
Chloe	rafter walking	squeaky mouse decoy	right pawed	tabby stripes	feather wand
Luna	fence leaping	catnip smoke bomb	left pawed	calico patches	feather wand

CLUE 1
Multiplication facts (1-12)

The Whisker Patrol finds a box of stolen treats. They are lined up in neat rows. We can count them fast with multiplication to find the first clue!

Solve each problem, then write its letter in every clue box that shows the same number.

T								T									
25	63	49	10	22	110	16	110	25	144	77	49	96	10	96	121	16	
55	121	96	81	81	84	35	16	55	63	110	110	3					

$5 \times 5 = \square \rightarrow \text{T}$

$11 \times 11 = \square \rightarrow \text{R}$

$12 \times 7 = \square \rightarrow \text{L}$

$10 \times 11 = \square \rightarrow \text{O}$

$3 \times 1 = \square \rightarrow \text{K}$

$9 \times 7 = \square \rightarrow \text{H}$

$11 \times 7 = \square \rightarrow \text{S}$

$8 \times 2 = \square \rightarrow \text{N}$

$12 \times 12 = \square \rightarrow \text{U}$

$11 \times 5 = \square \rightarrow \text{G}$

$7 \times 7 = \square \rightarrow \text{E}$

$11 \times 2 = \square \rightarrow \text{D}$

$2 \times 5 = \square \rightarrow \text{Y}$

$5 \times 7 = \square \rightarrow \text{I}$

$9 \times 9 = \square \rightarrow \text{P}$

$8 \times 12 = \square \rightarrow \text{A}$

Scratch space:

CLUE 2 Rounding

We found a digital scale in the kitchen. It is dusty and only shows rounded numbers. We must round the weight of this collar to unlock the clue.

Solve each problem, then write its letter in every clue box that shows the same number.

T						T								T			
1100	30	9000	5000	9000	2300	1100	1300	130	290	1300	3700	170	70	1100	290	130	7000
			T			T											
5000	9000	2300	1100	170	70	1100	30	9000	3000	130	700	9000					

Round 1,127 to the nearest hundred → **T**

Round 2,904 to the nearest thousand → **C**

Round 170 to the nearest ten → **I**

Round 32 to the nearest ten → **H**

Round 6,975 to the nearest thousand → **S**

Round 3,663 to the nearest hundred → **R**

Round 133 to the nearest ten → **A**

Round 1,346 to the nearest hundred → **P**

Round 291 to the nearest ten → **W**

Round 686 to the nearest hundred → **K**

Round 9,418 to the nearest thousand → **E**

Round 4,634 to the nearest thousand → **L**

Round 71 to the nearest ten → **N**

Round 2,291 to the nearest hundred → **F**

Scratch space:

CLUE 3 Addition

A pile of sparkly toys was left in the hallway. Let us add them all up to see how many the catburglar dropped.

Solve each problem, then write its letter in every clue box that shows the same number.

T					T							T							
2594	9277	8195	3829	4636	2594	4297	6217	6217	8195	5685	2594	4297	6217	7736	3951	3829			
		T																	
9483	9322	2594	9277	4636	9322	7736	2791	8195	2716	6400	4297	9322	7736						

$1096 + 1498 = \square \rightarrow \boxed{\text{T}}$

$1805 + 911 = \square \rightarrow \boxed{\text{R}}$

$3526 + 5751 = \square \rightarrow \boxed{\text{H}}$

$1592 + 2237 = \square \rightarrow \boxed{\text{Y}}$

$1623 + 2674 = \square \rightarrow \boxed{\text{O}}$

$2216 + 4184 = \square \rightarrow \boxed{\text{F}}$

$2608 + 2028 = \square \rightarrow \boxed{\text{S}}$

$1900 + 891 = \square \rightarrow \boxed{\text{V}}$

$2885 + 3332 = \square \rightarrow \boxed{\text{P}}$

$2897 + 6425 = \square \rightarrow \boxed{\text{I}}$

$2179 + 1772 = \square \rightarrow \boxed{\text{A}}$

$4115 + 4080 = \square \rightarrow \boxed{\text{E}}$

$2678 + 3007 = \square \rightarrow \boxed{\text{D}}$

$6554 + 2929 = \square \rightarrow \boxed{\text{W}}$

$3367 + 4369 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4 Subtraction

The bakery is missing some milk bottles. If we subtract the remaining bottles from the starting amount, we will uncover a secret note.

Solve each problem, then write its letter in every clue box that shows the same number.

W															
4020	1020	4713	3852	8140	8401	6671	3852	4692	4728	8401	3694	1020	4728	8401	6671

7822	1482	4728	5490	8177	5490	4728	1482	1141	5490	3852	4713	8140	4692

$$7737 - 3717 = \square \rightarrow \boxed{W}$$

$$12998 - 4821 = \square \rightarrow \boxed{K}$$

$$8446 - 624 = \square \rightarrow \boxed{B}$$

$$9524 - 4832 = \square \rightarrow \boxed{R}$$

$$7430 - 3736 = \square \rightarrow \boxed{G}$$

$$7073 - 2345 = \square \rightarrow \boxed{A}$$

$$6049 - 4567 = \square \rightarrow \boxed{L}$$

$$7748 - 1077 = \square \rightarrow \boxed{D}$$

$$10059 - 4569 = \square \rightarrow \boxed{C}$$

$$5926 - 4906 = \square \rightarrow \boxed{E}$$

$$1920 - 779 = \square \rightarrow \boxed{I}$$

$$12128 - 3727 = \square \rightarrow \boxed{N}$$

$$8558 - 418 = \square \rightarrow \boxed{U}$$

$$7957 - 3244 = \square \rightarrow \boxed{F}$$

$$5071 - 1219 = \square \rightarrow \boxed{O}$$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

We need to share these fish crackers equally among the helper kittens. Use division to split them up and reveal the final clue!

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

Step 1 - solve these:

$77 \div 11 = \boxed{}$

$30 \div 3 = \boxed{}$

$1 \div 1 = \boxed{}$

$12 \div 2 = \boxed{}$

$12 \div 1 = \boxed{}$

$3 \div 1 = \boxed{}$

$50 \div 10 = \boxed{}$

$45 \div 5 = \boxed{}$

$64 \div 8 = \boxed{}$

$20 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain jumped onto the shiny marble counter, then turned on their night vision goggles.
2. The villain walked along the dusty wooden rafters, then tossed a squeaky mouse decoy.
3. The villain hopped across the tall library bookshelves, then tossed a squeaky mouse decoy.
4. The villain hopped across the tall library bookshelves, then turned on their night vision goggles.
5. The villain leaped over the tall garden fence, then fired a yarn grappling hook.
6. The villain walked along the dusty wooden rafters, then fired a yarn grappling hook.
7. The villain jumped onto the shiny marble counter, then dropped a smelly catnip smoke bomb.
8. The villain leaped over the tall garden fence, then turned on their night vision goggles.
9. The villain walked along the dusty wooden rafters, then shined a bright red laser pointer.
10. The villain walked along the dusty wooden rafters, then turned on their night vision goggles.
11. The villain hopped across the tall library bookshelves, then fired a yarn grappling hook.
12. The villain jumped onto the shiny marble counter, then tossed a squeaky mouse decoy.

Answer Key

The Great Catburglar of Purr Palace

Culprit: Milo

rafter walking · squeaky mouse decoy · left pawed · calico patches · crinkling foil

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THEY DO NOT USE A YARN GRAPPLING HOOK"

$5 \times 5 = 25$ (T) · $11 \times 11 = 121$ (R) · $12 \times 7 = 84$ (L) · $10 \times 11 = 110$ (O) · $3 \times 1 = 3$ (K) · $9 \times 7 = 63$ (H) · $11 \times 7 = 77$ (S) · $8 \times 2 = 16$ (N) · $12 \times 12 = 144$ (U) · $11 \times 5 = 55$ (G) · $7 \times 7 = 49$ (E) · $11 \times 2 = 22$ (D) · $2 \times 5 = 10$ (Y) · $5 \times 7 = 35$ (I) · $9 \times 9 = 81$ (P) · $8 \times 12 = 96$ (A)

Clue 2 (Rounding): "THE LEFT PAWPRINT WAS LEFT IN THE CAKE"

Round 1,127 to the nearest hundred = 1100 (T) · Round 2,904 to the nearest thousand = 3000 (C) · Round 170 to the nearest ten = 170 (I) · Round 32 to the nearest ten = 30 (H) · Round 6,975 to the nearest thousand = 7000 (S) · Round 3,663 to the nearest hundred = 3700 (R) · Round 133 to the nearest ten = 130 (A) · Round 1,346 to the nearest hundred = 1300 (P) · Round 291 to the nearest ten = 290 (W) · Round 686 to the nearest hundred = 700 (K) · Round 9,418 to the nearest thousand = 9000 (E) · Round 4,634 to the nearest thousand = 5000 (L) · Round 71 to the nearest ten = 70 (N) · Round 2,291 to the nearest hundred = 2300 (F)

Clue 3 (Addition): "THEY STOPPED TO PLAY WITH SILVER FOIL"

$1096 + 1498 = 2594$ (T) · $1805 + 911 = 2716$ (R) · $3526 + 5751 = 9277$ (H) · $1592 + 2237 = 3829$ (Y) · $1623 + 2674 = 4297$ (O) · $2216 + 4184 = 6400$ (F) · $2608 + 2028 = 4636$ (S) · $1900 + 891 = 2791$ (V) · $2885 + 3332 = 6217$ (P) · $2897 + 6425 = 9322$ (I) · $2179 + 1772 = 3951$ (A) · $4115 + 4080 = 8195$ (E) · $2678 + 3007 = 5685$ (D) · $6554 + 2929 = 9483$ (W) · $3367 + 4369 = 7736$ (L)

Clue 4 (Subtraction): "WE FOUND ORANGE AND BLACK CALICO FUR"

$7737 - 3717 = 4020$ (W) · $12998 - 4821 = 8177$ (K) · $8446 - 624 = 7822$ (B) · $9524 - 4832 = 4692$ (R) · $7430 - 3736 = 3694$ (G) · $7073 - 2345 = 4728$ (A) · $6049 - 4567 = 1482$ (L) · $7748 - 1077 = 6671$ (D) · $10059 - 4569 = 5490$ (C) · $5926 - 4906 = 1020$ (E) · $1920 - 779 = 1141$ (I) · $12128 - 3727 = 8401$ (N) · $8558 - 418 = 8140$ (U) · $7957 - 3244 = 4713$ (F) · $5071 - 1219 = 3852$ (O)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Milo

$77 \div 11 = 7$ · $30 \div 3 = 10$ · $1 \div 1 = 1$ · $12 \div 2 = 6$ · $12 \div 1 = 12$ · $3 \div 1 = 3$ · $50 \div 10 = 5$ · $45 \div 5 = 9$ · $64 \div 8 = 8$ · $20 \div 5 = 4$ · $11 \div 1 = 11$